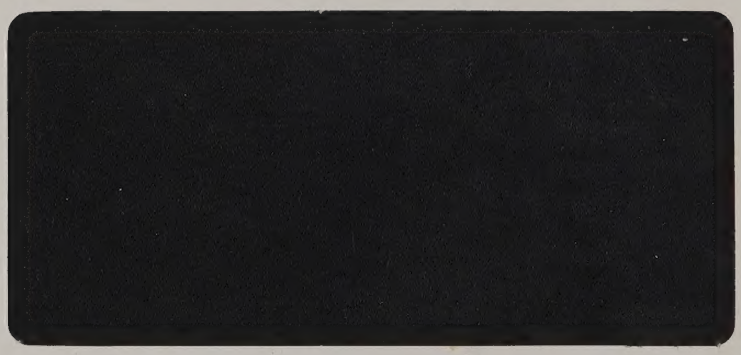
Overhaul Instructions *and* Parts Catalog

ARC TYPE A-13B ANTENNA

Aircraft Radio Corporation *Boonton, New Jersey*



Overhaul Instructions

for

ARC TYPE A-13B ANTENNA

ARCOV-A13B-1
January 1959

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SECTION I

GENERAL INFORMATION

1-1. INTRODUCTION.

This book provides overhaul procedures for the ARC Type A-13B Antenna (Figure 1-1), manufactured by Aircraft Radio Corporation, Boonton, New Jersey. Instructions are included for disassembly, cleaning, inspection, repair, replacement, reassembly, and testing.

1-2. PURPOSE.

The A-13B is a VOR, VAR, localizer, and glide slope receiving antenna used with airborne radio receiving equipments such as the ARC Type 15C, 15D, and 15E VHF Navigation Receiving Equipments.

1-3. DESCRIPTION.

The A-13B is a "ramshorn" antenna consisting of two broad-band dipole antennas. The forward dipole antenna is used for glide slope signal reception and the rear dipole antenna is used for the reception of VOR, VAR, and localizer signals. Each antenna is terminated in a UG-291/U BNC connector located in the antenna base. The dipoles are set in a rubber form which is fastened to an aluminum pedestal support. The A-13B is designed for mounting on the fuselage of the aircraft.

1-4. WEIGHT AND DIMENSIONS.

The A-13B weighs 3.6 pounds and is 10-1/4 inches high, 28 inches wide, and 21-1/4 inches deep.

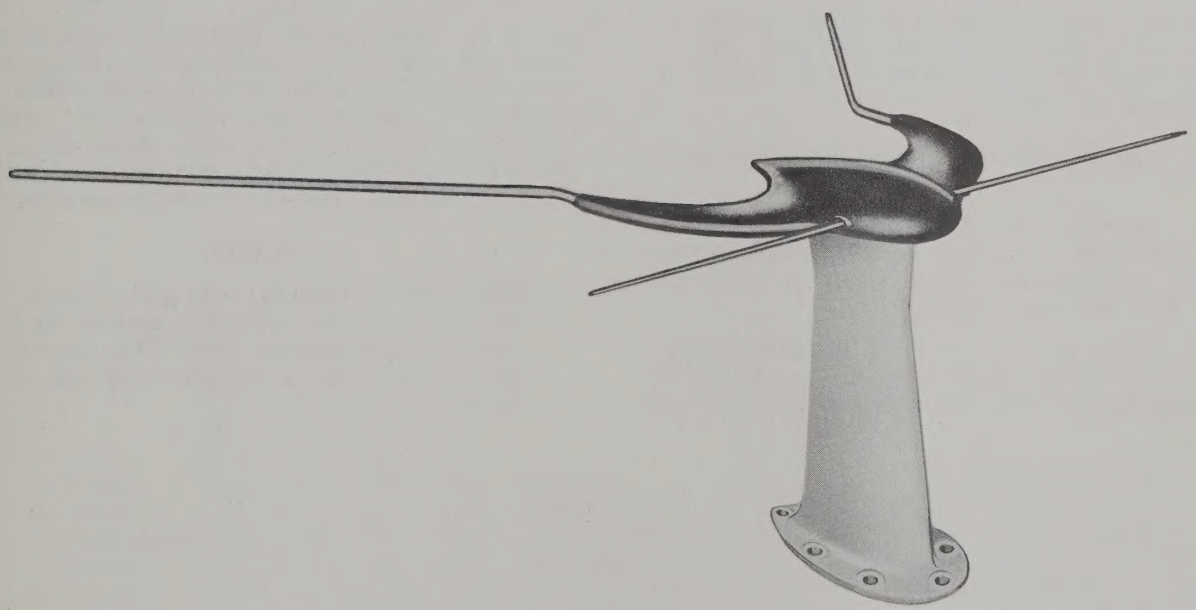

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Figure 1-1. ARC Type A-13B Antenna

SECTION II

DISASSEMBLY

2-1. GENERAL .

This section contains instructions for the disassembly of the ARC Type A-13B Antenna.

2-2. DISASSEMBLY.

Note

Disassemble the A-13B only to the extent required for the necessary repair and replacement.

Step 1. Unscrew the four screws (2, Figure 2-1).

Step 2. Remove the eight screws (3) and lockwashers (4), freeing connectors (15 and 35), and remove base plate (1).

Step 3. Unsolder and remove connector (15) of the glide slope coupling assembly (11) and connector (35) of the VOR coupling assembly (22).

Note

If desired, only the connector bodies need be removed to permit removal of support (5); unsoldering of connectors (15 and 35) is not absolutely necessary.

Step 4. Unscrew the six screws (6) and remove support (5).

Step 5. Unsolder the leads of the glide slope coupling assembly (11) from the glide slope antenna terminals. Unsolder the leads of the two coils (10) from the VOR antenna terminals.

Step 6. Remove the two screws (8) and lockwashers (9), and taking care to lift straight up and away to avoid damaging the coils (10) which are press-fitted into the antenna (7), separate antenna from the coupling assemblies (11 and 22).

Note

Only if necessary, extract the two coils (10) from their mounting holes in antenna (7).

Step 7. Remove screw (12) and washer (13), and separate the glide slope coupling assembly (11) and VOR coupling assembly (22).

Step 8. If disassembly of the glide slope coupling assembly (11) is necessary, unsolder cable (18) and remove cable sleeve (17), collar (16), and cable (18) from bracket (21); then unscrew the two screws (20) which secure insulator (19) to bracket (21).

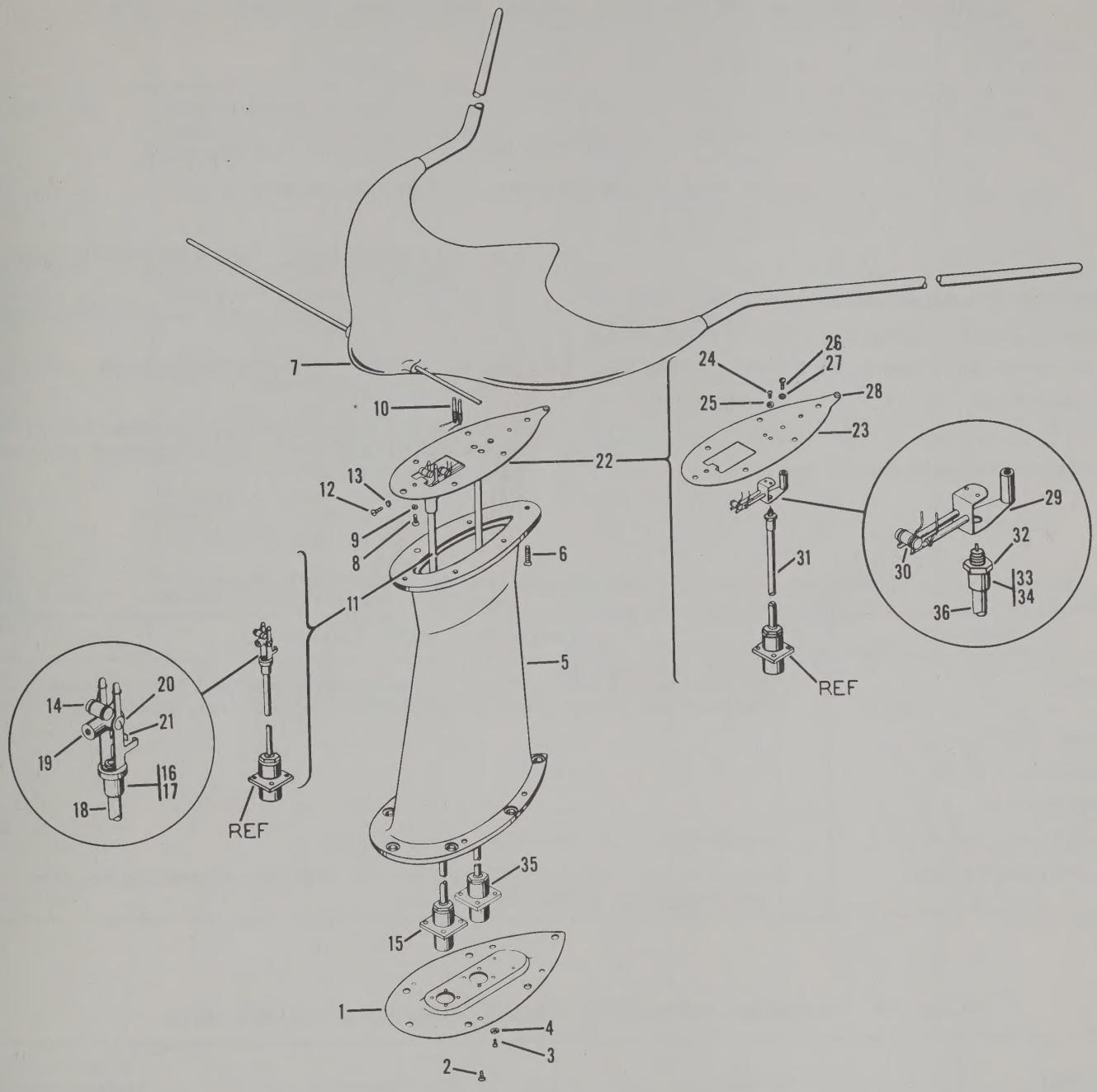
CAUTION

Remove capacitor (14) only if necessary. If not removed, take care not to disturb the position of the capacitor since it has been factory-adjusted for a specific resonant frequency.

Step 9. If necessary to disassemble the VOR coupling assembly (22), remove screws (24 and 26) and lockwashers (25 and 27), and remove plate (23). From bracket (29) unsolder cable assembly (31), which includes cable bushing (32), cable sleeve (34), collar (33), and cable (36). To separate cable assembly (31) from bracket (29), unscrew the cable assembly.

CAUTION

Remove capacitor (30) only if necessary. If not removed, take care not to disturb the position of the capacitor since it has been factory-adjusted for a specific resonant frequency.



1. PLATE
2. SCREW
3. SCREW
4. LOCKWASHER
5. SUPPORT
6. SCREW
7. ANTENNA
8. SCREW
9. LOCKWASHER
10. COIL
11. GLIDE SLOPE COUPLING ASSEMBLY
12. SCREW
13. WASHER
14. CAPACITOR
15. CONNECTOR
16. COLLAR
17. SLEEVE
18. CABLE
19. INSULATOR
20. SCREW
21. BRACKET
22. VOR COUPLING ASSEMBLY
23. PLATE
24. SCREW
25. LOCKWASHER
26. SCREW
27. LOCKWASHER
28. EYELET
29. BRACKET
30. CAPACITOR
31. CABLE ASSEMBLY
32. BUSHING
33. COLLAR
34. SLEEVE
35. CONNECTOR
36. CABLE

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Figure 2-1. ARC Type A-13B Antenna

SECTION III

CLEANING, INSPECTION, REPAIR, AND REPLACEMENT

3-1. GENERAL.

This section contains instructions for cleaning, inspection, repair, and replacement of the disassembled parts of the ARC Type A-13B Antenna. When compressed air is required, use clean, dry, oil-free air at 10 to 12 psi; use a lower pressure when the air stream is directed at delicate parts.

3-2. CLEANING MATERIALS AND PROTECTIVE AGENTS.

All required cleaning materials and protective agents are listed in Table 3-1.

3-3. CLEANING, INSPECTION, REPAIR, AND REPLACEMENT.

Table 3-2 serves as a guide for cleaning, inspection, repair, and replacement. Index numbers indicated refer to Figure 2-1.

TABLE 3-1. CLEANING MATERIALS AND PROTECTIVE AGENTS

Material	Manufacturer and/or Specification
Varsol	Esso Standard Oil Co. (a petroleum naphtha of the Stoddard Solvent class). Solvent, Dry-Cleaning, Federal Specification P-S-661, may also be used.
Nonmetallic Brush	———
Camels Hair Brush	———
Lintless Cloth	———
Red Glyptal Enamel	General Electric Co. No. 1201, or equivalent.
Gray Glyptal Enamel	Mixture of 3 parts General Electric Co. No. 7496 gray Glyptal enamel with 1 part Dupont Co. Du-Lux white enamel.

TABLE 3-2. CLEANING, INSPECTION, REPAIR, AND REPLACEMENT DATA

Part	Cleaning	Inspection	Repair and Replacement
Antenna Assembly (7)	Remove surface dust with lintless cloth. If antenna surfaces are oxidized or dirty use clean cloth moistened with Varsol. CAUTION Do not use cleaning solvent on rubber block. Clean surfaces with lukewarm water and mild soap.	Inspect for deterioration or cracks in rubber block, and bends or corrosion of dipole rods. Inspect for enlarged or stripped mounting holes, and corroded, dirty, or cracked antenna terminals.	Replace if defective.
Base Plate (1)	Remove surface dust with lintless cloth. Remove deposits of dirt or grime with clean cloth moistened with Varsol. Dry with compressed air.	Inspect for enlarged or stripped mounting holes.	Replace if defective.

TABLE 3-2. CLEANING, INSPECTION, REPAIR, AND REPLACEMENT DATA (Continued)

Part	Cleaning	Inspection	Repair and Replacement
Bracket (29)	Remove deposits of dirt or grime with clean cloth moistened with Varsol. Dry with compressed air.	Inspect for enlarged or stripped mounting holes and for bends in capacitor mounting tubes.	Replace if defective.
Connectors (15 and 35)	Blow out accumulated dust.	Inspect for bent or broken pin, cracked insulation, and worn or damaged threads.	Replace if damaged.
Glide Slope Coupling Assembly (11)	Remove accumulated dust with compressed air at no more than 10 psi. CAUTION Take care not to disturb the position of capacitor (14).	Inspect for security of capacitor leads and cable connection and for cracks in insulator (19).	Secure leads and connection and replace insulator if defective.
Plate (23)	Remove deposits of dirt or grime with clean cloth moistened with Varsol. Dry with compressed air.	Inspect for enlarged or stripped mounting holes.	Replace if defective.
Support (5)	Remove deposits of dirt or grime with clean cloth moistened with Varsol. Dry with compressed air.	Inspect for bends, breaks, or deformation, and enlarged or stripped mounting holes.	Replace if defective.
VOR Coupling Assembly (22)	Remove accumulated dust with compressed air at no more than 10 psi. CAUTION Take care not to disturb the position of capacitor (30).	Inspect for security of capacitor leads and cable connection, enlarged or stripped mounting holes in bracket (29), and bends in capacitor mounting tubes.	Secure leads and connection and replace bracket if damaged.

SECTION IV

REASSEMBLY

4-1. GENERAL.

This section contains instructions for the reassembly of the ARC Type A-13B Antenna.

4-2. REASSEMBLY.

Reassembly of VOR Coupling Assembly. If the VOR coupling assembly (22, Figure 2-1) has been disassembled, reassemble as follows, making reference to Figure 4-1 as required:

CAUTION

If capacitor (30, Figure 2-1) mounted on bracket (29) has not been removed during disassembly, take care not to disturb its position.

Step 1. If capacitor (30) is to be replaced, solder capacitor to bracket (29) as shown in Detail A, Figure 4-1. Thread a 1-7/8-inch long piece of No. 24 solid black insulated wire through tube and pass end of wire through hole in the opposite tube at the dimension indicated in Figure 4-1. Terminate and solder this end of the wire.

Step 2. Screw cable assembly (31, Figure 2-1) into bracket (29) tightly against the end of the threads and seal the junction area with red Glyptal. Do not connect the end of the No. 24 wire to the cable at this time.

Step 3. Mount plate (23), keeping bracket (29) centered along the long axis of the plate as shown in Figure 4-1, and secure with screw (26, Figure 2-1) and lockwasher (27), and two screws (24) and lockwashers (25). Seal screws with red Glyptal.

Step 4. Adjust the resonant frequency of VOR coupling assembly (22) to 108 ± 0.5 mc by positioning capacitor (30) so that its leads do not extend beyond the limits shown in Figure 4-1. Do not disturb this position after it has been determined.

Step 5. Solder the end of the No. 24 wire to the center conductor of cable (36, Figure 2-1) keeping wire dressed close to bracket (29).

Reassembly of Glide Slope Coupling Assembly. If the glide slope coupling assembly (11, Figure 2-1) has been disassembled, reassemble as follows, making reference to Figure 4-2 as required:

CAUTION

If capacitor (14, Figure 2-1) has not been removed during disassembly, take care not to disturb its position.

Step 1. Trim cable (18) to the dimensions shown in Figure 4-2 and slide collar (16, Figure 2-1) over cable. Place sleeve (17) in position so that the chamfers of both the collar and the sleeve face each other, and fan out braid. (See Figure 4-2.)

Step 2. Push bracket (21, Figure 2-1) between the insulation and braid of cable (18) until the bracket's shoulder is pressing against the fanned out braid. Support collar (16) on surface "A" (Figure 4-2) and drive bracket, sleeve, and cable into position to firmly clamp the braid.

Step 3. Trim the braid and the center conductor of the cable to the dimensions shown in Figure 4-2 and slip a 1-1/16-inch length of 0.375-inch ID transparent Vinylite tubing over the cable towards the bracket. Assemble connector (15, Figure 2-1) to cable (18) and wrap three turns of 0.375-inch wide white tape around the cable, starting at a point 0.750 inch from the flange of the connector.

Step 4. Apply red Glyptal to the entire length of the threaded hole in insulator (19, Figure 2-1) and assemble the insulator to bracket (21), securing with two screws (20). If capacitor (14) is to be replaced, solder capacitor to bracket as shown in Figure 4-2. Form a 1-inch long piece of No. 24 solid black insulated wire as shown in Figure 4-2, and solder one end to the center conductor of cable (18, Figure 2-1). Keep the other end of the wire temporarily out of contact with bracket (21).

Step 5. Adjust the resonant frequency of the glide slope coupling assembly (11, Figure 2-1) to 320 ± 2 mc by adjusting the position of capacitor (14), taking care to observe the limits shown in Figure 4-2. Do not disturb this position after it has been determined.

Step 6. Solder the end of the No. 24 wire to bracket (21, Figure 2-1), keeping wire dressed close to bracket. (See Figure 4-2.)

Reassembly of Antenna. After completion of the procedures detailed above, reassemble the A-13B as follows, making reference to Figure 4-3 as required:

Step 1. With the leads of the two coils (10, Figure 2-1) directed towards the VOR antenna terminals, press the coils into the holes of antenna (7) to the height indicated in Figure 4-3. Solder the close-wrapped lead of each coil to its corresponding VOR antenna terminal.

Step 2. Taking care not to disturb the position of capacitor (30, Figure 2-1), mount VOR coupling assembly (22) on antenna (7), securing it with screws (8) and lockwashers (9). Solder the straight lead of

each coil (10) to the VOR coupling assembly as shown in Figure 4-3, making certain that the twisted coil leads clear the tubings of the VOR coupling assembly by 0.0625 inch.

Step 3. Taking care not to disturb the position of capacitor (14, Figure 2-1), mount the glide slope coupling assembly (11) to plate (23), securing it with screw (12) and rubber washer (13). Seal screw (12) with gray Glyptal. Fashion connectors from No. 16 AWG tinned copper wire in accordance with Figure 4-3 and solder connectors to glide slope coupling assembly (11, Figure 2-1) and to glide slope antenna terminals, taking care to maintain 0.250 inch distance between centers of terminals.

Step 4. Remove connectors (15 and 35, Figure 2-1) from their respective cables, slip the tubing on glide slope coupling assembly (11) up and over the soldered connections to the glide slope antenna terminals (Figure 4-3), and assemble support (5, Figure 2-1) to antenna (7), securing with six screws (6). Seal screws with gray Glyptal.

Step 5. Replace connectors (15 and 35, Figure 2-1) and secure to plate (1) with eight screws (3) and eight lockwashers (4), making certain that the glide slope connector (15) on the white-banded cable goes in the position marked "GP." Mount plate (1) on support (5) and secure with four screws (2). Seal the four screws with gray Glyptal.

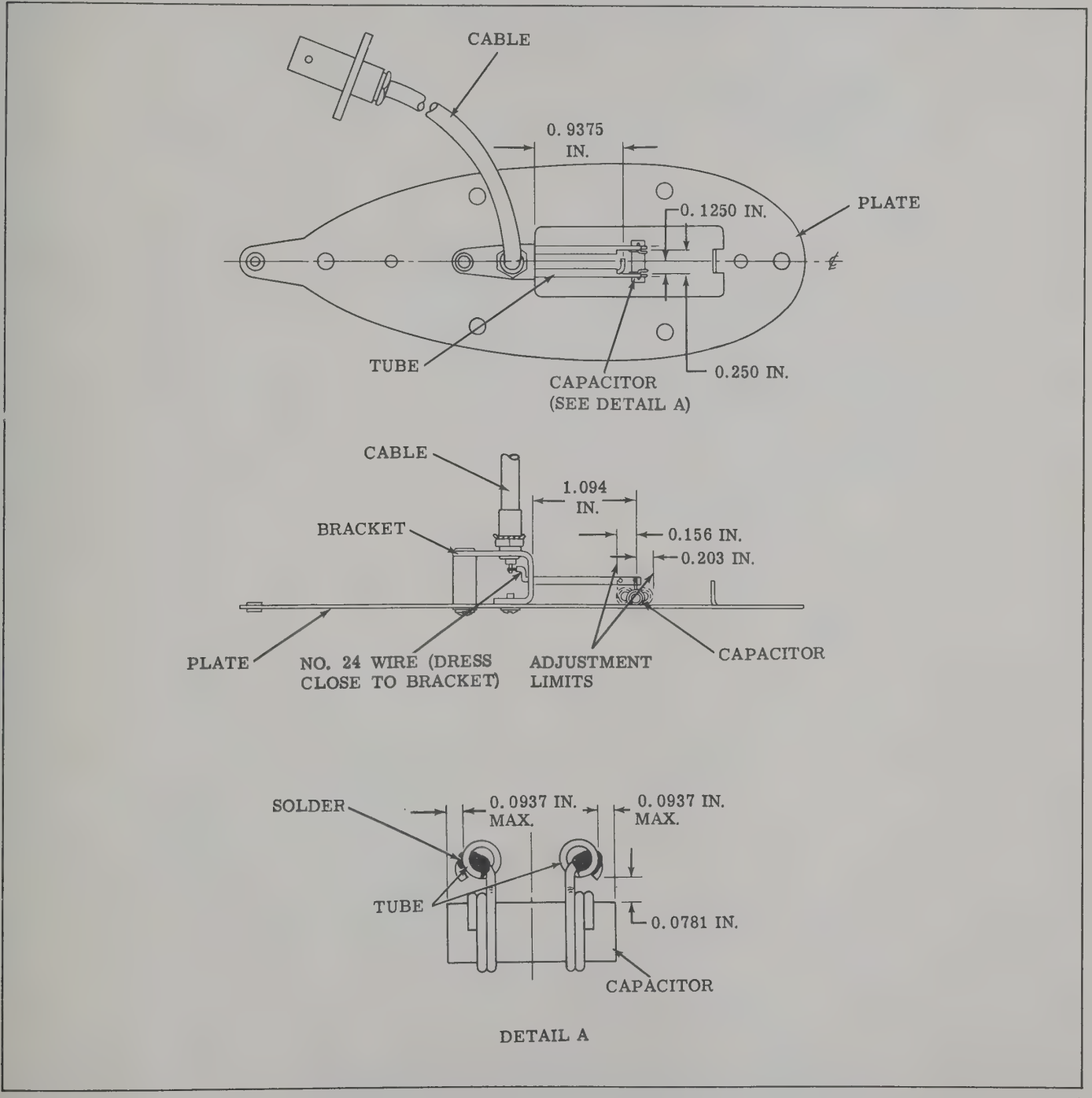

Figure 4-1. Reassembly of VOR Coupling Assembly

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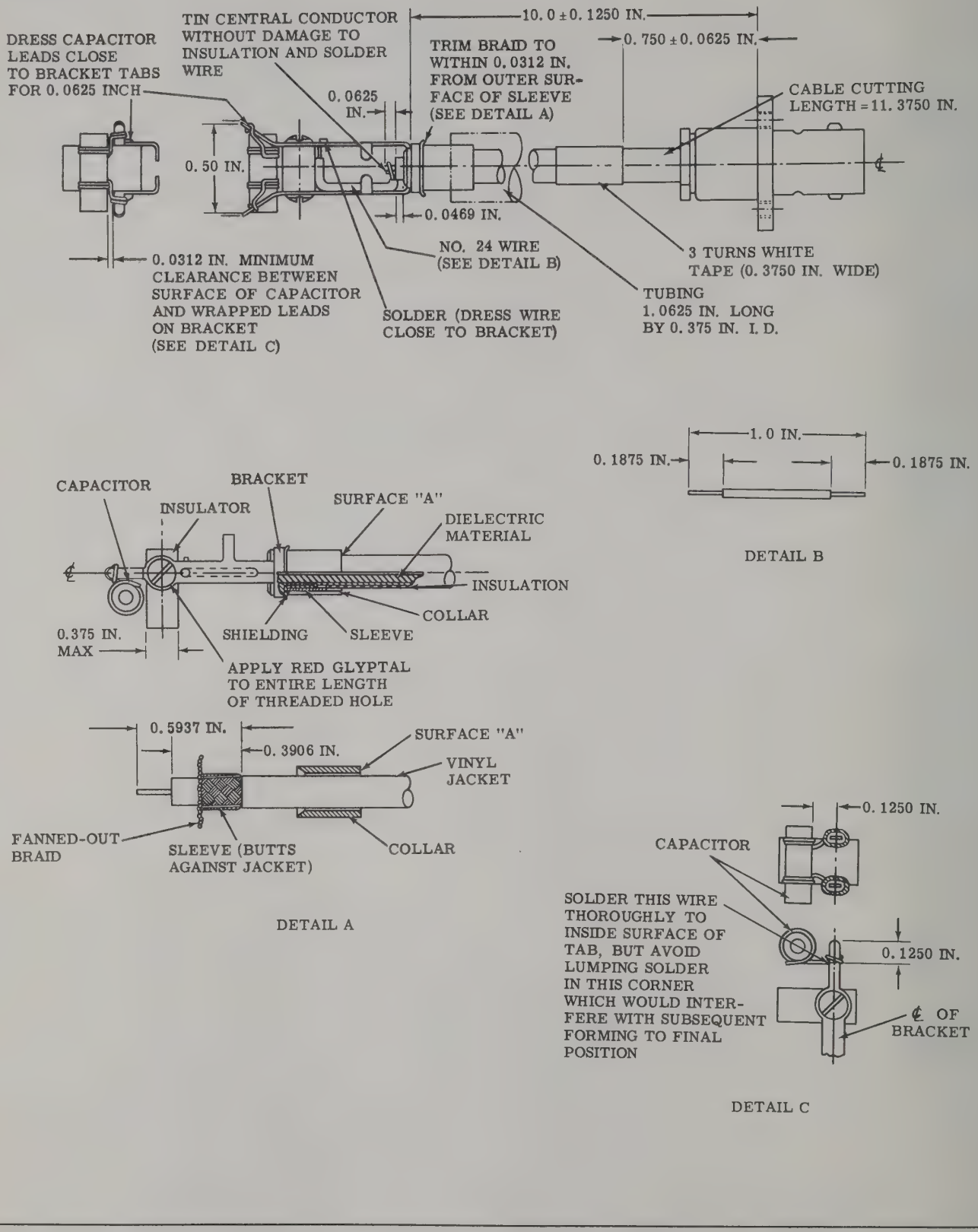
DRESS CAPACITOR LEADS CLOSE TO BRACKET TABS FOR 0.0625 INCH
TIN CENTRAL CONDUCTOR WITHOUT DAMAGE TO INSULATION AND SOLDER WIRE
10.0 ± 0.1250 IN.
0.750 ± 0.0625 IN.
TRIM BRAID TO WITHIN 0.0312 IN. FROM OUTER SURFACE OF SLEEVE (SEE DETAIL A)
0.0625 IN.
CABLE CUTTING LENGTH = 11.3750 IN.
0.50 IN.
0.0469 IN.
NO. 24 WIRE (SEE DETAIL B)
3 TURNS WHITE TAPE (0.3750 IN. WIDE)
0.0312 IN. MINIMUM CLEARANCE BETWEEN SURFACE OF CAPACITOR AND WRAPPED LEADS ON BRACKET (SEE DETAIL C)
SOLDER (DRESS WIRE CLOSE TO BRACKET)
TUBING 1.0625 IN. LONG BY 0.375 IN. I.D.
1.0 IN.
0.1875 IN.
0.1875 IN.
DETAIL B
CAPACITOR
BRACKET
INSULATOR
SURFACE "A"
DIELECTRIC MATERIAL
INSULATION
COLLAR
0.375 IN. MAX
SHIELDING
SLEEVE
APPLY RED GLYPTAL TO ENTIRE LENGTH OF THREADED HOLE
0.5937 IN.
0.3906 IN.
SURFACE "A"
VINYL JACKET
FANNED-OUT BRAID
SLEEVE (BUTTS AGAINST JACKET)
COLLAR
DETAIL A
0.1250 IN.
CAPACITOR
SOLDER THIS WIRE THOROUGHLY TO INSIDE SURFACE OF TAB, BUT AVOID LUMPING SOLDER IN THIS CORNER WHICH WOULD INTERFERE WITH SUBSEQUENT FORMING TO FINAL POSITION
0.1250 IN.
℄ OF BRACKET
DETAIL C

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Figure 4-2. Reassembly of Glide Slope Coupling Assembly

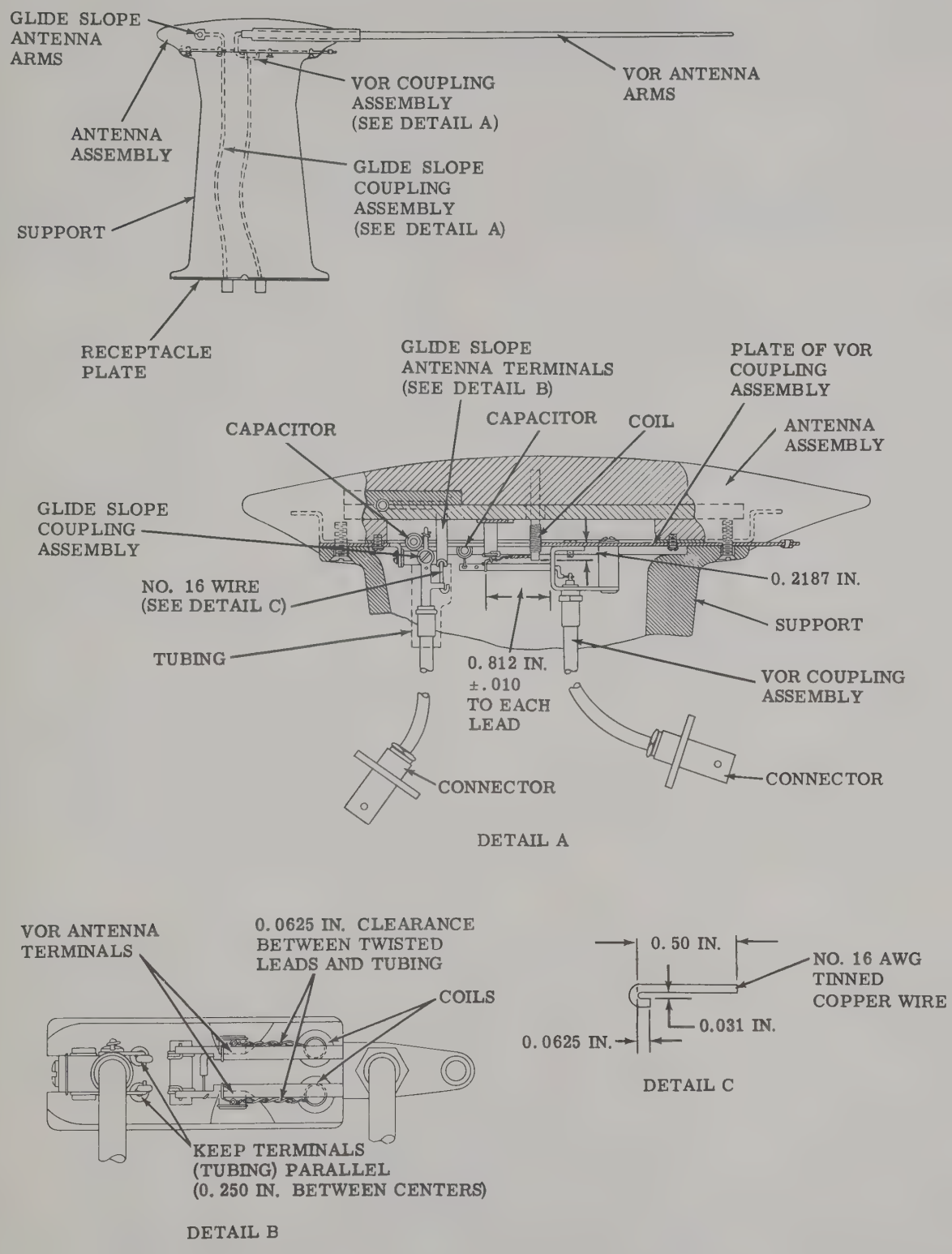

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Figure 4-3. Reassembly of Antenna

SECTION V

TESTING

5-1. GENERAL.

This section contains instructions for testing the ARC Type A-13B Antenna upon completion of reassembly.

5-2. TEST EQUIPMENT.

The test equipments listed in Table 5-1, or their equivalents, are required for final test of the A-13B.

5-3. TEST PROCEDURES.

VOR Antenna Test.

Step 1. Select an unobstructed area, preferably outdoors. Set up the ARC Type 15C, 15D, or 15E and connect the receiver antenna input to the VOR connector of one of the two A-13B standard antennas. Locate the standard antenna in its normal horizontal position at least 6 feet above the ground.

Step 2. At an unobstructed distance of at least 15 feet from the receiving equipment, set up the ARC Type H-14A. Locate the remaining standard antenna at a height of at least 6 feet, direct it toward the other standard antenna, and connect the VOR connector to the ATTEN output connector on the H-14A.

Step 3. Adjust the H-14A for a simulated VOR signal of zero degrees "TO" and a frequency of 110 mc. Tune the radio receiving equipment to the signal generator frequency and place the OMNI-VAR LOC switch on the control unit in the OMNI position. Turn the indicator course selector knob to position the pointer at zero. The flag alarm over the vertical pointer should be out of sight, the vertical pointer should be centered, and the TO-FROM meter should indicate "TO." Adjust the H-14A ATTENUATOR dial until the flag alarm just comes into sight. Note the ATTENUATOR μv reading.

Step 4. Repeat Step 3 at 115 mc and 120 mc.

Step 5. Replace the standard A-13B Antenna connected to the receiver with the A-13B Antenna to be tested, taking care to locate it in the same position.

Step 6. Repeat Steps 3 and 4 of this procedure. The ATTENUATOR μv readings should not vary more than ±10% from those obtained with the standard antenna.

Note

If the test limits are not met, slight readjustment of the VOR coil and capacitor positions may be required.

Glide Slope Antenna Test.

Step 1. Select an unobstructed area, preferably outdoors. Connect the antenna input of a glide slope receiver to the GP connector of one of the two A-13B standard antennas. Locate the standard antenna in its normal horizontal position at least 6 feet above the ground. Connect the cross-pointer meter or course indicator to the receiver output.

TABLE 5-1. TEST EQUIPMENT

Equipment	Manufacturer	Model or Part No.
Antenna (2 required)*	Aircraft Radio Corp.	A-13B
Cross-pointer Meter**	Aircraft Radio Corp.	13310
or		
Course Indicator**	Aircraft Radio Corp.	IN-10
Glide Slope Signal Generator	Boonton Radio Corp.	232-A
Signal Generator	Aircraft Radio Corp.	H-14A
VHF Navigation Receiving Set	Aircraft Radio Corp.	15C, 15D, or 15E

*The two A-13B Antennas required do not include the A-13B under test but are standards, that is, antennas "known to be good."

**The cross-pointer meter or course indicator are alternative instruments required for the glide slope antenna test. The cross-pointer meter is part of the ARC Type 15C, and the IN-10 is supplied with the ARC Type 15D and 15E.

Step 2. At an unobstructed distance of at least 10 feet from the glide slope receiver, set up the Boonton Radio 232-A Glide Slope Signal Generator. Locate the remaining standard antenna at a height of at least 6 feet, direct it toward the other standard antenna, and connect the GP connector to the RF OUTPUT connector of the signal generator.

Step 3. Set the signal generator to a frequency of 329.3 mc. Tune the glide slope receiver to the signal generator frequency. The horizontal pointer flag alarm should not be visible and the horizontal pointer should center.

Step 4. Adjust the signal generator OUTPUT LEVEL control until the flag alarm just appears and note the microvolt reading.

Step 5. Repeat Steps 3 and 4 at 332.0 mc and at 335.0 mc.

Step 6. Replace the standard A-13B Antenna connected to the receiver with the A-13B to be tested, taking care to locate it in the same position.

Step 7. Repeat Steps 3, 4, and 5 of this procedure. The microvolt readings should not vary more than ±10% from those obtained with the standard antenna.

Note

If the test limits are not met, slight readjustment of the glide slope coil and capacitor positions may be required.

Parts Catalog

for

ARC TYPE A-13B

ANTENNA

ARCPC-A13B-1
January 1959

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SECTION I

GENERAL INFORMATION

1-1. INTRODUCTION.

This book provides parts information for the ARC Type A-13B Antenna (Figure 1), manufactured by Aircraft Radio Corporation, Boonton, New Jersey. Included are instructions for using the Parts Catalog, illustrations showing disassembly relationship, a parts list, a numerical index, and a reference designation index.

1-2. PARTS LIST.

The Parts List, Section II, consists of a breakdown of the A-13B Antenna into assemblies, subassemblies, and detail parts. Each assembly is listed in its order of disassembly and is followed by its detail parts properly indented below, except where reference is made to other illustrations. Items which are made from bulk stock, such as cut lengths of wire, are not included in the Parts List.

In the figure and index number column, the digit preceding the hyphen refers to the corresponding illustration. The digits following the hyphen are the index numbers of parts and assemblies. The index numbers are numerically arranged in the Parts List and are used primarily to assist in locating a part in the Parts List when the part number has been located in the Numerical Index, Section III. The index numbers also assist in locating the part on the referenced illustrations.

The ARC part number column contains the Aircraft Radio Corporation assigned part number for the indexed item. Codes and part numbers of manufacturers other than ARC are included in parentheses in the description column.

The description column lists each assembly, and its detail parts properly indented to show their relationship to the assembly. Attaching parts are listed in the same column immediately following the parts they attach. The symbol "---*---" indicates the completion of the attaching parts for an assembly or part. A reference to a figure and index number in the description column refers to a separate illustration and listing in which the detail parts are shown, or to an illustration on which the part is shown as an assembled item.

Except for attaching parts, the quantities listed in the units-per-assembly column are the quantities per assembly, per subassembly, etc. The quantities specified, therefore, are not necessarily the total for the A-13B Antenna. Refer to the Numerical Index, Section III, for total quantities.

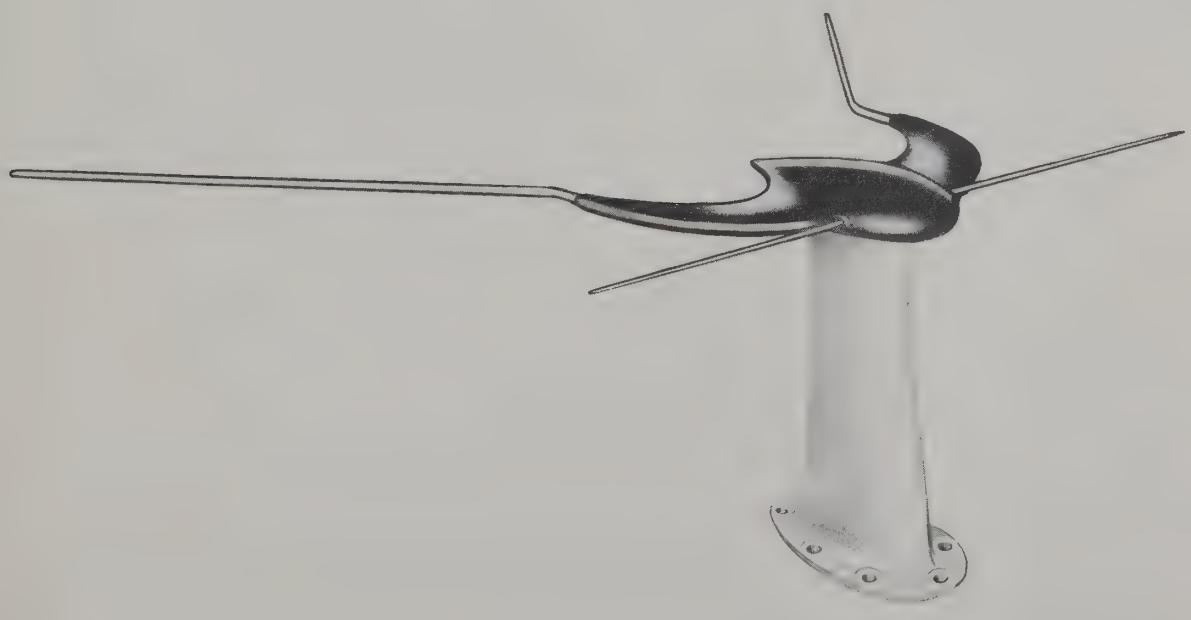

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Figure 1. ARC Type A-13B Antenna

1-3. MANUFACTURERS' CODE.

The following is a list of manufacturers' codes, and the corresponding names and addresses, which are referenced in this Parts Catalog.

CODE	NAME AND ADDRESS
CN	CENTRALAB DIV GLOBE-UNION INC Milwaukee, Wisconsin
IPC	INDUSTRIAL PRODUCTS CO DIV OF KNUDSEN INC Danbury, Conn.
PK	PARKER-KALON INC New York, N.Y.
SK	SHAKEPROOF INC DIV ILLINOIS TOOL WORKS Chicago, Ill.

1-4. NUMERICAL INDEX.

The part number column of the Numerical Index lists all part numbers included in the Parts List, Section II, and is compiled in accordance with the following alphabetical-numerical system.

Part number arrangement starts at the left and continues from left to right, one column at a time, until part number position in the Numerical Index is determined. Beginning with the first column, the order of precedence to determine the part number position is as follows:

(1) Letters A through Z
(2) Numerals 0 through 9

Continuing with the second and succeeding columns, the order of precedence to determine the part number position is as follows:

(1) Space (blank column)
(2) Diagonal (slant) /
(3) Point (period) .
(4) Dash (-)
(5) Parentheses ( )
(6) Letters A through Z
(7) Numerals 0 through 9

Alphabetical O's are considered as numerical zeroes. Parts which have neither an ARC nor a manufacturer's part number are listed by item name. In the figure and index number column the digits preceding the dash refer to the figure in the Parts List, Section II, on which the assemblies or parts are illustrated. The digits following the dash are the index numbers of the parts or assemblies. The total quantity column lists the total quantity of assemblies or parts for the antenna.

1-5. REFERENCE DESIGNATION INDEX.

The Reference Designation Index, Section IV, lists reference designations which have been assigned to parts of the A-13B Antenna. The reference designation column lists the reference designations in alphabetical-numerical sequence. All reference designations used in illustrations and publications pertaining to the A-13B Antenna are listed. The figure and index number column is used to locate the part in the Parts List. The part number column lists the part numbers of those parts which have been assigned reference designations.

1-6. HOW TO USE THIS PARTS CATALOG.

When a part number is known and it is desired to locate and identify the part, refer to the Numerical Index, Section III. Using the alphabetical-numerical arrangement, locate the part number. Note the figure and index number opposite the part number. Refer to the referenced figure and index number in the Parts List, Section II.

When the location and appearance of a part is known and it is desired to determine its part number and description, refer to the Table of Contents of the Parts Catalog for the page number of the major assembly which illustrates the desired part. Then refer to the Parts List, Section II, and identify the part of the illustration by its index number. The part number and description will be found immediately opposite the figure and index number in the parts list for the illustration.

SECTION II

PARTS LIST

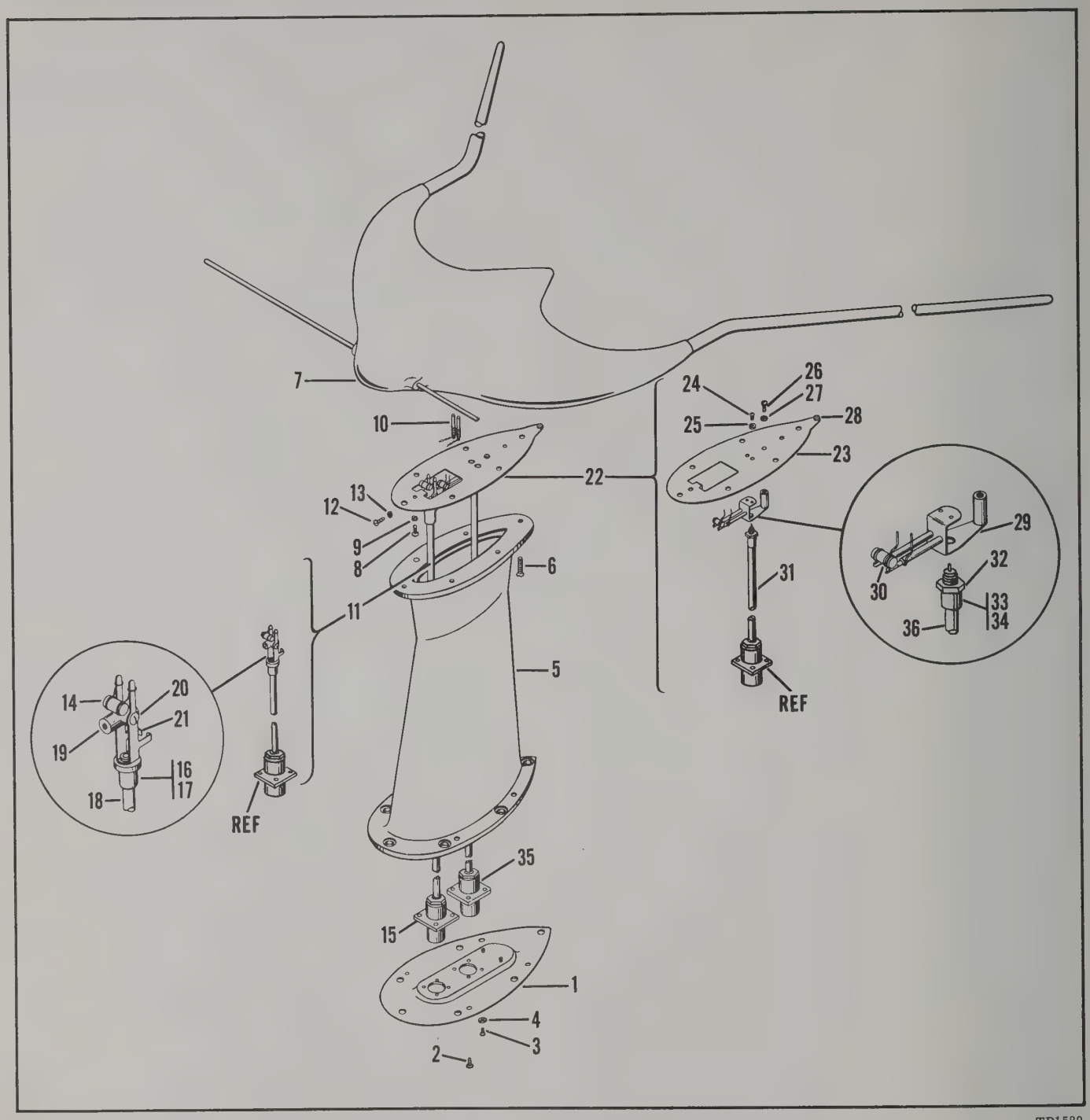

Figure 2. ARC Type A-13B Antenna, Exploded View

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6 7	Units Per Assy
2-	15823	ANTENNA, ARC Type A-13B	1
-1	15578	. PLATE, Base	1
		(ATTACHING PARTS)	
-2	142(1/4)	. SCREW, Machine, flat hd, brs, ni pl, 2-56 thd by 1/4 in. lg	4
-3	8264	. SCREW, Machine, bind hd, brs, ni pl, 3-56 thd by 3/16 in. lg	8
-4	4558	. WASHER, Lock (SH) (1903-00)	8
		---*---	
-5	15575	. SUPPORT	1
		(ATTACHING PARTS)	
-6	8574	. SCREW, Tapping, thread cutting, No. 8 by 1/2 in. lg (PK) (Type Z)	6
		---*---	
-7	15576	. ANTENNA	1
		(ATTACHING PARTS)	
-8	162(5/32)	. SCREW, Machine, fil hd, brs, ni pl, 2-56 thd by 5/32 in. lg	2
-9	7001	. WASHER, Lock (SH) (1902-00)	2
		---*---	
-10	15786	. COIL, R-F	2
-11	15577	. COUPLING ASSEMBLY, Glide path	1
		(ATTACHING PARTS)	
-12	103(1/4)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 1/4 in. lg	1
-13	12924	. WASHER, Non-metallic rubber	1
		---*---	
-14	8591	. . CAPACITOR, Fixed, ceramic dielectric, 12 uuf ±5 per cent, 600 vdcw (CN) (TV20120JS1G)	1
-15	13787	. . CONNECTOR, Receptacle (IPC) (5000)	1
-16	16724	. . COLLAR	1
-17	16723	. . SLEEVE, Cable	1
-18	11318	. . CABLE, R-F, 12 in. lg	1
-19	15565	. . INSULATOR, Spacer	1
		(ATTACHING PARTS)	
-20	102(1/8)	. . SCREW, Machine, bind hd, brs, ni pl, 2-56 thd by 1/8 in. lg	2
		---*---	
-21	15574	. . BRACKET	1
-22	15572	. COUPLING ASSY, VOR	1
-23	14687	. . PLATE	1
		(ATTACHING PARTS)	
-24	102(5/32)	. . SCREW, Machine, bind hd, brs, ni pl, 2-56 thd by 5/32 in. lg	2
-25	7001	. . WASHER, Lock (SH) (1902-00)	2
-26	104(1/4)	. . SCREW, Machine, bind hd, brs, ni pl, 4-40 thd by 1/4 in. lg	1
-27	4242	. . WASHER, Lock (SH) (1904-00)	1
		---*---	
-28	4172	. . EYELET, Metallic	1
-29	15715	. . BRACKET	1
-30	8541	. . CAPACITOR, Fixed, ceramic dielectric, 100 uuf ±2 per cent, 600 vdcw (CN) (TU30101GU2J)	1
-31	15571	. . CABLE ASSEMBLY, R-F	1
-32	14778	. . . BUSHING, Cable	1
-33	16724	. . . COLLAR	1
-34	16723	. . . SLEEVE, Cable	1
-35	13787	. . . CONNECTOR, Receptacle (IPC) (5000)	1
-36	11318	. . . CABLE, R-F, 12 in. lg	1

SECTION III

NUMERICAL INDEX

Part No.	Figure & Index No.	Total Qty
TU30101GU2J	2-30	Ref
TV20120JS1G	2-14	Ref
Type Z (No. 8 by 1/2)	2-6	Ref
102(1/8)	2-20	2
102(5/32)	2-24	2
103(1/4)	2-12	1
104(1/4)	2-26	1
11318	2-18	2
	2-36	
12924	2-13	1
13787	2-15	2
	2-35	
142(1/4)	2-2	4
14687	2-23	1
14778	2-32	1
15565	2-19	1
15571	2-31	1
15572	2-22	1
15574	2-21	1
15575	2-5	1
15576	2-7	1
15577	2-11	1
15578	2-1	1

Part No.	Figure & Index No.	Total Qty
15715	2-29	1
15786	2-10	2
15823	2-	1
162(5/32)	2-8	2
16723	2-17	2
	2-34	
16724	2-16	2
	2-33	
1902-00	2-9	Ref
	2-25	
1903-00	2-4	Ref
1904-00	2-27	Ref
4172	2-28	1
4242	2-27	1
4558	2-4	8
5000	2-15	2
	2-35	
7001	2-9	4
	2-25	
8264	2-3	8
8541	2-30	1
8574	2-6	6
8591	2-14	1

SECTION IV

REFERENCE DESIGNATION INDEX

Reference Designation	Figure & Index No.	Part No.
C801	2-30	8541
C802	2-14	8591
J801	2-15	13787
J802	2-35	13787

Reference Designation	Figure & Index No.	Part No.
L801	2-10	15786
L802	2-10	15786
W801	2-31	15571
W802	2-11	15577

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